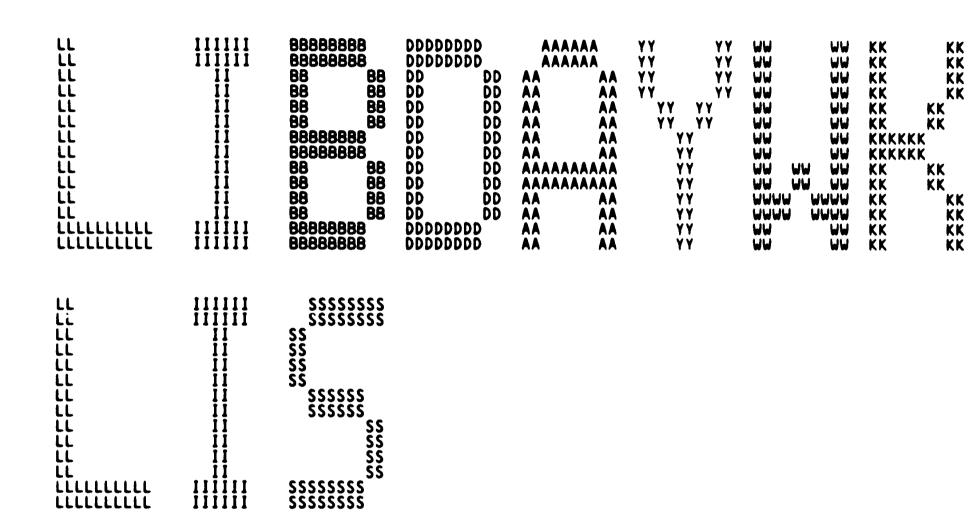
```
111111111
                                                                   TTTTTTTTTTTTT
                    TITITITITITI
                                                                                   LLL
                    LLL
                                                                   TTTTTTTTTTTTT
                                                                                   LLL
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                                                                                    LLLLLLLLLLLLL
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                    RRR
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                    111111111
                                                                         III
                                                                                   LLLLLLLLLLLLLL
```

1

Sy



.

LIB\$DAY_OF_WEEK ; find numeric day of week 15-SEP-1984 23:55:35 VAX/VMS Macro V04-00 Page 0

(2) 44 HISTORY ; Detailed Current Edit History
(3) 52 DECLARATIONS LIB\$DAY_OF_WEEK -

Herb Jacobs

.TITLE LIB\$DAY_OF_WEEK
.IDENT 'V03-002' ; find numeric day of week ; EDIT:LEB1002 ŎŎŎŎ ŎŎŎŎ COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED. THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED. THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION. DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. FACILITY: Language-independent support library : ABSTRACT: 33 34 VERSION: 1 HISTORY: ŎŎŎŎ 9 AUTHOR:

November 1981

B 8

(1)

1-

; make monday 1, tuesday 2, etc.

20000002

```
E 8
                                                                                           15-SEP-1984 23:55:35 VAX/VMS Macro V04-00 6-SEP-1984 11:05:15 [LIBRTL.SRC]LIBDAYWK.MAR;1
LIBSDAY_OF_WEEK
                                        ; find numeric day of week
                                                                                                                                                          Page
V03-002
                                        LIBSDAY_OF_WEEK -
                                                                      .SBTTL LIBSDAY_OF_WEEK -
                                              0000
                                                        888888889999
88888889999
                                              0000
                                              0000
                                                            : FUNCTIONAL DESCRIPTION:
                                              0000
                                                                     This routine returns the numeric day of the week for an input time value. If the input value is omitted, the current day of the week today, is returned. Monday is considered day 1, and Sunday day
                                              0000
                                              0000
                                              0000
                                              0000
                                              0000
                                              0000
                                                              CALLING SEQUENCE:
                                              0000
                                                                      ret_status = LIB$DAY_OF_WEEK
                                                                                                             ( time_64_bit_Q, output day L)
                                              0000
                                                        95
                                              0000
                                                              INPUT PARAMETERS:
                                              0000
                                              0000
                                                        97
                                                                      time_64_bit_Q - Address of a quadword representing time or O
                                              0000
                                              0000
                                                        99
                                                              IMPLICIT INPUTS:
                                              0000
                                                       100
                                              0000
                                                       101
                                                                      If time_64_bit_Q is 0, then the current system time is used.
                                              0000
                                                       102
                                              0000
                                                              OUTPUT PARAMETERS:
                                              0000
                                                       104
                                              0000
                                                       105
                                                                      output_day_L - Address of a longword to receive the day
                                              0000
                                                       106
                                              0000
                                                       107
                                                              IMPLICIT OUTPUTS:
                                              0000
                                                       108
                                              0000
                                                       109
                                                                      NONE
                                              0000
                                                       110
                                              0000
                                                              COMPLETION CODES:
                                                      111
                                              0000
                                                      112
                                              0000
                                                                      SS$_NORMAL
                                                                                          - success
                                              0000
                                                       114
                                              0000
                                                      115
                                                              SIDE EFFECTS:
                                              0000
                                                      116
                                              0000
                                                      117
                                                                      NONE
                                              0000
                                                      118
                                              0000
                                                      119
                                              0000
                                                                      .entry -
                                      0000
                                              0000
                                                       121
                                                           lib$day_of_week,^M<>
                                                      122
                       000000018F
                                              0002
                                         DO
                                                                                #lib$_invarg,r0 ;
                                                                      movl
                                                                                                      assume error
                                  02
                                         91
                            60
                                              0009
                                                                      cmpb
                                                                                #2,(ap)
                                                                                                      are there at least 2 arguments?
                                                       124
                                              0000
                                   3E
                                         1A
                                                                                1005
                                                                      batru
                                                                                                      branch if not
                               04
                                              ÖÖÖE
                                  AC
                                         DO
                                                                      movl
                                                                                4(ap),rl
                                                                                                      get address of quadword time branch if specified
                                                       126
127
                                         12
                                              0012
                                                                                20$
                                                                      bnea
                            51
                                   ŽE.
                                         7Ē
                                              0014
                                                                      DEVOM
                                                                                -(sp),r1
                                                                                                      area to receive time in, r1 addr of area
                                                       128
129
                                              0017
                                                                                                      get current time
                                                                      Sgettim_s (r1)
                                         E9
70
                                              0020
                                                                                r0,100$
                                                                                                      Branch if error
                                                                      b[bc
                                                                               (r1),r0; get the time
#60*10*1000*1000,r0,r0,r1; get the time in minutes
                                              0023
                                                       130 20$:
                                                                      PVOM
                       23C34600 8F
     51
           50
                 50
                                         7B
                                                       131
                                              0026
                                                                      ediv
                                                       132
133
134
135
                                         D4
7B
CO
                                              002F
```

clrl

ediv

addl

clrl

ediv

add13

#24*60,r0,r0,r1 #offset,r0

#7,r0,r0,r1

#1,r1,a8(ap)

51

50

50

50

08 BC

000005A0

50

50 51

8F

02 51

07

Ŏì

04 7B

CĪ

0031

003A

003D

003F

0044

136 137

time in minutes from 1858 is only 32 bits

account for Nov 17, 1858 being a Wednesday

ro number of weeks, r1 day of week

time in days into r0

again only 32 bits

; store the day number

F 8 LIBSDAY_OF_WEEK 15-SEP-1984 23:55:35 VAX/VMS Macro V04-00 6-SEP-1984 11:05:15 [LIBRTL.SRC]LIBDAYWK.MAR;1 ; Find numeric day of week LIB\$DAY_OF_WEEK -5 (4) Page 0049 0040 004D 004D 138 139 100\$: 140 141 50 DC 04 01 #1,r0 ; set success ; exit, clean stack if needed movl ret .end

```
G 8
LIBSDAY OF WEEK
                                                                                 15-SEP-1984 23:55:35 VAX/VMS Macro V04-00 6-SEP-1984 11:05:15 [LIBRTL.SRC]LIBDAYWK.MAR;1
                                    ; find numeric day of week
                                                                                                                                         Page
Symbol fable
                                                                                                                                               (4)
LIBSDAY_OF_WEEK 00000000 RG
LIBS INVARG
                                    ŎÒ
                 = 00000002
SYSSGETTIM
                                    01
                   ******
                                                       Psect synopsis!
PSECT name
                                                          PSECT No.
                                    Allocation
                                                                      Attributes
   ABS
                                    00000000
                                                                0.)
                                                                      NOPIC
                                                                              USR
                                                                                                   LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
                                                                                            ABS
_LIB$CODE
                                    0000004D
                                                   77.)
                                                          01 (
                                                                Ĭ.)
                                                                        PIC
                                                                                      CON
                                                                                                   LCL SHR EXE RD NOWRT NOVEC LONG
                                                                               USR
                                                    Performance indicators
Phase
                            Page faults
                                            CPU Time
                                                             Elapsed Time
                                            00:00:00.05
Initialization
                                                             00:00:02.86
                                    113
Command processing
                                            00:00:00.32
                                                             00:00:03.81
                                            00:00:00.35
Pass 1
                                     99
                                                             00:00:03.96
                                            00:00:00.00
Symbol table sort
                                                             00:00:00.00
                                     40
Pass 2
                                            00:00:00.19
                                                             00:00:01.83
                                            00:00:00.01
Symbol table output
                                                             00:00:00.11
Psect synopsis output
                                            00:00:00.02
                                                             00:00:00.02
Cross-reference output
                                            00:00:00.00
                                                             00:00:00.00
Assembler run totals
                                    289
                                            00:00:00.95
                                                             00:00:12.59
The working set limit was 900 pages.
1906 bytes (4 pages) of virtual memory were used to buffer the intermediate code. There were 10 pages of symbol table space allocated to hold 4 non-local and 2 local symbols.
141 source lines were read in Pass 1, producing 11 object records in Pass 2.
2 pages of virtual memory were used to define 2 macros.
                                                  Macro library statistics !
Macro library name
                                                  Macros defined
_$255$DUA28:[SYSLIB]STARLET.MLB;2
                                                              2
12 GETS were required to define 2 macros.
There were no errors, warnings or information messages.
```

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:LIBDAYWK/OBJ=OBJ\$:LIBDAYWK MSRC\$:LIBDAYWK/UPDATE=(ENH\$:LIBDAYWK)

0205 AH-BT13A-SE

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